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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,592	12/11/2003	Arthur M. Krieg	C 1037.70038US01	2533	
759	06/26/2006		EXAMINER		
Helen C. Lockhart, Ph.D.			MINNIFIELD, NITA M		
Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue			ART UNIT	PAPER NUMBER	
Boston, MA 02210			1645		
			DATE MAILED: 06/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/735,592	KRIEG ET AL.				
		Examiner	Art Unit				
		N. M. Minnifield	1645				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence addi	ress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vier to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	N. mely filed n the mailing date of this com ED (35 U.S.C. § 133).	·			
Status							
1)	Responsive to communication(s) filed on						
		_· action is non-final.					
3)□	<i>'</i> —		osecution as to the r	narite ie			
ا (۵	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice under E	n parte quayre, 1000 c.b. 11, 4	00 0.0. 210.				
Dispositi	ion of Claims						
4)⊠	4) Claim(s) 1-37,52,63-65,68,69 and 75 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)[	6) Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)⊠	8) Claim(s) 1-37,52,63-65,68,69 and 75 are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)□	The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prior	* *	<del></del>	tage			
	application from the International Bureau	•	eu in this National St	lage			
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F		52)			
	r No(s)/Mail Date	6) Other:	The second secon	,			

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1. Applicants' preliminary amendment filed April 29, 2004 is acknowledged and has been entered. Claims 38-51, 53-62, 66, 67, 70-74 and 76-89 have been canceled. Claims 6-9, 11-13, 17-23, 25, 28, 29, 32, 35 and 36 have been amended. Claims 1-37, 52, 63-65, 68, 69 and 75 are now pending in the present application.

## Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1, 6-10 and 13-24, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
  - II. Claims 2 and 12, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
  - III. Claims 3 and 11, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
  - IV. Claim 4, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
  - V. Claim 5, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
  - VI. Claim 52, drawn to a oligonucleotide composition, classified in class 536, subclass 23.1.
  - VII. Claim 63, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
  - VIII. Claim 64, drawn to an oligonucleotide, classified in class 536, subclass 23.1.

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- IX. Claim 65, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
- X. Claim 68, drawn to an oligonucleotide, classified in class 536, subclass 23.1
- XI. Claim 69, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
- XII. Claim 75, drawn to an oligonucleotide, classified in class 536, subclass 23.1.
- XIII. Claims 25-27, drawn to a method for treating allergy, classified in class 514, subclass 44.
- XIV. Claims 25-27, drawn to a method for treating asthma, classified in class 514, subclass 44.
- XV. Claim 28, drawn to a method for inducing cytokine production, classified in class 514, subclass 44.
- XVI. Claims 29-31, drawn to a method for treating infectious disease, classified in class 514, subclass 44.
- XVII. Claims 32-34, drawn to a method for treating cancer, classified in class 514, subclass 44.
- XVIII. Claim 35, drawn to a method for inducing innate immunity in a subject, classified in class 514, subclass 44.
- XIX. Claim 36, drawn to a method for inducing a Th1 immune response in a subject, classified in class 514, subclass 44.
- XX. Claim 37, drawn to a method of modulating an immune response in a subject, classified in class 514, subclass 44.

The inventions are distinct, each from the other because of the following reasons:

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Inventions I-XII and XIII-XX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the product as claimed can be used in a materially different process of using that product. The different products, oligonucleotides, can be used in hybridization assays or as primers. The process for using the products can be practiced with another materially different product. There are other products that can be used in the treatment of allergy and asthma such as prednisone; antibiotics can be used in the treatment of infectious diseases; and cytokines can be administered to a subject in the treatment of cancer.

Inventions XIII-XX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different method inventions are distinct from one another because they have different goals as evidenced by the various preambles (i.e. treating allergy, treating asthma, inducing cytokine production, treating infectious disease, treating cancer, inducing innate immunity, inducing Th1 immune response, and modulating an immune response) as well as having different method steps, different components/compositions being used and different final outcomes. Therefore, each of the claimed methods is distinct from the other.

Inventions I-XII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the

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instant case, the different inventions products are physically, structurally, biochemically and functionally distinct chemical entities that lack a common function and core structure.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

4. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light

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of *In re Ochiai*, *In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** 

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. M. Minnifield whose telephone number is 571-272-0860. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette R.F. Smith can be reached on 571-272-0864. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**Primary Examiner** 

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**NMM** 

June 13, 2006